

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (Currently Amended) A motor stator assembly comprising:

a plurality of yokes ~~fabricated by laminating~~ comprising a laminated plurality of steel sheets having a predetermined length; and

a plurality of poles, on which a coil is wound, the poles engaged between the yokes and ~~formed by molding comprising a molded~~ magnetic material ~~in a mold, on which coil is wound.~~

2. (Currently Amended) The assembly of claim 1, wherein at least one of the poles ~~the pole~~ comprises:

a guide ~~part~~ having a circular arc shape, for collecting magnetic flux;

a winding ~~part~~ portion connected to a rear surface of the guide ~~part~~, on which the coil is wound; and

a ~~connecting part~~ connector formed at a rear surface of the winding ~~part~~ portion and connected to at least one of the yokes ~~the yoke~~.
3. (Currently Amended) The assembly of claim 1, wherein at least one of the poles

P23922.A02

comprises ~~the pole is formed~~ of iron powder.

4. (Currently Amended) The assembly of claim 21, ~~wherein~~ further comprising an insulator is attached to an inside of the winding portion ~~part on which coil is wound~~ and the pole for insulating the pole from the coil.

5. (Currently Amended) The assembly of claim 21, ~~wherein~~ further comprising a molded nonconductive material ~~is molded~~ provided at an inner side of the winding portion ~~part on which coil is wound~~ and the pole for insulating the pole from the coil.

6. (Currently Amended) The assembly of claim 5, wherein the nonconductive material ~~is~~ comprises epoxy.

7. (Currently Amended) The assembly of claim 2, wherein the guide ~~part~~ comprises an inner surface of a circular arc shape, for collecting magnetic flux to a rotor by guiding the rotor.

8. (Currently Amended) The assembly of claim 2, wherein a height and a length of the winding ~~part~~ portion are ~~smaller~~ less than ~~those of~~ a height and a length of the guide ~~part~~, preventing in order to prevent the coil from protruding ~~being protruded~~ out of the guide ~~part~~

P23922.A02

when the coil is wound on the winding ~~part~~ portion and ~~allowing in order to wound~~ the coil ~~to be wound~~ several times, and an outer circumference surface of the winding ~~part~~ portion is formed concavely so that the coil can be wound thereon.

9. (Currently Amended) The assembly of claim 2, wherein an edge, ~~formed~~ at an outer circumference surface of the winding ~~part~~ portion is formed as a curved line in order to prevent coating of the coil from falling off when the coil is wound.

10. (Currently Amended) The assembly of claim 2, wherein the ~~connecting-part~~ connector has a circular arc shape and ~~is formed of~~ comprises a plate having a constant height and a width.

11. (Currently Amended) The assembly of claim 10, wherein the yoke is engaged between two ~~different connecting parts~~ connectors and ~~formed in accordance with that a~~ the plurality of yoke plates ~~having of~~ having a constant curvature radius ~~therein~~ are laminated as to have a the height of the ~~connecting-part~~ connector.

12. (Currently Amended) The assembly of claim 11, wherein a connecting projection and a connecting groove for engaging the yoke and the ~~connecting-part~~ connector are formed with the same height as the yoke and the ~~connecting-part~~ connector.

13. (Currently Amended) The assembly of claim 1211, wherein the connecting projection ~~of the yoke is protruded as a~~ has a protruding rectangular shape and ~~engaged to engages with a rectangular~~ the connecting groove ~~having a rectangular groove of the connecting part~~ in order to prevent the yoke from being separated from the ~~connecting part~~ connector.

14. (Currently Amended) The assembly of claim 1211, wherein the connecting projection ~~of the yoke is protruded as a~~ has a protruding trapezoid shape and ~~engaged to engages with a trapezoid~~ the connecting groove ~~having a corresponding trapezoid groove of the connecting part~~.

15. (Currently Amended) The assembly of claim 1211, wherein the connecting projection has two stopping jaws on its sides ~~of the yoke is protruded long with two same stopping jaws at both sides thereof, and engaged to engages with~~ a stopping groove having a groove of a corresponding shape ~~to the connecting part~~ in order to prevent the yoke from being separated from the ~~connecting part~~ connector.

16. (Currently Amended) The assembly of claim 12[[1]],
~~wherein a step projection of a rectangular shape is formed at both ends of the yoke and~~

P23922.A02

~~engaged to a step projection formed at both ends of the connecting part with a corresponding rectangular shape,~~

wherein the connecting projection is ~~protruded with~~ has a protruding step projection and ~~engaged to~~ engages with ~~the connecting groove having~~ a corresponding step projection groove.

17. (Currently Amended) The assembly of claim 12[[1]],

~~wherein the yoke has a constant inclined surface at both ends thereof and a corresponding inclined surface is also formed at both ends of the connecting part, so that the yoke is engaged to the connecting part,~~

wherein the connecting projection comprises an inclined surface and engages with a connecting groove having a corresponding inclined surface.

18. (Currently Amended) A manufacturing method of a motor stator assembly comprising ~~the steps of:~~

~~a first step of~~ forming a plurality of yoke plates by blanking steel plate of a predetermined shape;

~~a second step of~~ forming a yoke by laminating the yoke plates with a predetermined height;

~~a third step of~~ forming a predetermined frame by installing the laminated yoke into a

P23922.A02
mold;

~~a fourth step of filling magnetic powder material in an empty space of the mold;~~

~~a fifth step of forming a pole engaged to the yoke by applying a predetermined pressure and heat to the filled magnetic powder material; and~~

~~a sixth step of removing the mold and then winding coil to the pole.~~

19. (Currently Amended) The method of claim 18, wherein forming the yoke plates ~~are formed by~~ comprises blanking the steel plate having a predetermined length and a width at a time ~~in the first step~~.

20. (Currently Amended) The method of claim 18, wherein forming the pole is ~~formed in accordance with that~~ comprises pressing and curing the magnetic powder material is ~~pressed and then cured with~~ at 300-500° C thus to be combined one another in the fifth step.

21. (Currently Amended) The method of claim 18, ~~wherein~~ further comprising one of attaching an insulator ~~is attached~~ to a contacted part between the pole and the coil, ~~or~~ and molding insulating material ~~is molded and attached thereto in order~~ to wind the coil on the pole.

22. (New) A motor stator assembly comprising:

P23922.A02

a plurality of yokes comprising a laminated plurality of steel sheets having a predetermined length; and

a plurality of poles, on which a coil is wound, engaged between the yokes, the poles comprising a predetermined frame defined by the laminated yoke positioned in a mold, magnetic powder material provided in an empty space of the mold, a predetermined pressure and heat applied to the filled magnetic powder material.